

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|-------------------------------|------------------|---------|------------------|
| L8 | 7 | "07/830,934" or "4547390".pn. or "4795467".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/03 00:28 |
| L9 | 2 | "5334626".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/03 00:32 |
| S1 | 122 | bone and inject\$4 and radiopaque and contrast and particle | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/03/06 17:14 |
| S2 | 12 | bone and inject\$4 and (radiopaque with particle) and (contrast with (media or medium or powder or liquid)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/03/06 17:22 |
| S3 | 10 | bone and inject\$4 and (radiopaque with particle) and (radiopaque with (media or medium or powder or liquid)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/03/06 17:25 |
| S4 | 3 | "6231615".pn. or "6309420".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/03/06 17:12 |
| S5 | 15 | 623/23.73 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 14:10 |
| S6 | 41 | 623/17.12 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 14:10 |
| S7 | 25 | 623/17.12 and (metal or radiopaque or radiographic) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 14:14 |
| S8 | 492 | (fluid or liquid or aqueous) and inject \$4 and (metal or radiopaque or radiographic) and implant and percutaneous | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 14:20 |
| S9 | 49 | (fluid or liquid or aqueous) and inject \$4 and (metal or radiopaque or radiographic) and implant and percutaneous and (particle adj size) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 15:07 |
| S10 | 192 | matrix and (radiopaque or radiographic) and bone and (particle adj size) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 15:10 |
| S11 | 46 | matrix and (radiopaque or radiographic) and bone and (particle adj size) and injectable | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 15:10 |
| S12 | 609 | 600/431 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 16:17 |

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|-----|-----|---|-------------------------------------|----|-----|---------------------|
| S13 | 21 | 600/431 and bone and matrix | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 16:18 |
| S14 | 80 | 600/431 and matrix and inject\$4 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 16:19 |
| S15 | 25 | 600/431 and matrix and inject\$4 and particle | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 16:55 |
| S16 | 2 | 623/902 and matrix and radiopaque and injectable | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 16:57 |
| S17 | 2 | 623/902 and matrix and (radiopaque or radiographic or contrast) and injectable | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 16:57 |
| S18 | 7 | (623/902 or 623/917 or 623/919 or 623/908 or 623/923) and matrix and (radiopaque or radiographic or contrast) and injectable | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 17:05 |
| S19 | 21 | (606/76 or 606/77 or 606/92 or 606/94 or 606/97) and matrix and (radiopaque or radiographic or contrast) and injectable | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/11 17:06 |
| S20 | 11 | percutaneous adj vertebroplasty | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 12:15 |
| S21 | 134 | percutaneous adj injection | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 12:17 |
| S22 | 22 | (percutaneous adj injection) and fluoroscop\$2 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 12:56 |
| S23 | 23 | ((bone or cement or (hard adj tissue) or polymer or matrix) and (radiopaque or radiographic or contrast) and (injection or injected)) and fluoroscop\$3) and PMMA | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 13:00 |
| S24 | 51 | (percutaneous adj injection) and (radiopaque or radiographic or contrast) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 13:01 |
| S25 | 24 | ((percutaneous adj injection) and (radiopaque or radiographic or contrast)) and bone | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 14:08 |
| S26 | 364 | ((particle with size) and (radiographic or radiopaque or contrast)) and cement) and (hydroxyapatites or barium or iodine) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 14:10 |
| S27 | 68 | ((((particle with size) and (radiographic or radiopaque or contrast)) and cement) and (hydroxyapatites or barium or iodine)) and (injectable or injected) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/12 15:41 |

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| S28 | 240 | bone and cement and (particle with size) and (metal or contrast or radiopaque or radiographic) and (fluoroscop\$3 or ray) | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2001/12/12 15:44 |
| S29 | 111 | (bone and cement and (particle with size) and (metal or contrast or radiopaque or radiographic) and (fluoroscop\$3 or ray)) and (injection or injectable or injected) | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2001/12/12 18:16 |
| S30 | 94 | radiopaque and (particle with size) and fluoroscop\$2 and inject\$5 | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2001/12/12 18:18 |
| S31 | 214 | 523/117 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/17 10:39 |
| S32 | 39 | 523/117 and (injectable or injected or injection) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2001/12/17 10:40 |
| S33 | 12 | (liquid with contrast) and (radiopaque with particles) and inject\$4 | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2002/10/09 17:49 |
| S34 | 687 | 600/431 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 11:02 |
| S35 | 30 | 623/23.73 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 11:03 |
| S36 | 138 | 623/23.61 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 11:03 |
| S37 | 101 | 623/915 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 11:03 |
| S38 | 65 | 623/919 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 11:03 |
| S39 | 85 | (radiopaque with partic\$6) and (contrast with (liquid or media or fluid)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:07 |
| S40 | 58 | (radiopaque with partic\$6) and (contrast with (liquid or media or fluid)) and (bone or tissue or PMMA) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 12:14 |
| S41 | 246 | 523/117 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 12:58 |
| S42 | 27 | ((radiopaque with partic\$6) and (contrast with (liquid or media or fluid))) not ((radiopaque with partic\$6) and (contrast with (liquid or media or fluid)) and (bone or tissue or PMMA)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:08 |

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|-----|------|--|-------------------------------------|----|-----|---------------------|
| S43 | 54 | 623/23.62 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:15 |
| S44 | 203 | 623/23.62 or 623/23.61 or 623/23.73 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:15 |
| S45 | 12 | (623/23.62 or 623/23.61 or 623/23.73) and radiopaque | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:16 |
| S46 | 75 | (623/23.62 or 623/23.61 or 623/23.73) and (radiopaque or ray) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:16 |
| S47 | 13 | (623/23.62 or 623/23.61 or 623/23.73) and (radiopaque or xray) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 13:16 |
| S48 | 0 | "6309420".URPN | USPAT | OR | ON | 2002/10/11 13:25 |
| S49 | 34 | ("3701771" "3882858" "3919773" "4288355" "4341691" "4365921" "4373217" "4404327" "4554686" "4610692" "4637931" "4728570" "4791150" "4837279" "4900546" "4966601" "4969888" "5015101" "5112354" "5282861" "5304586" "5336263" "5336699" "5367002" "5451406" "5476880" "5507813" "5571182" "5574075" "5676146" "5681872" "5759922" "5792478" "6080801").PN. | USPAT | OR | ON | 2002/10/11 13:26 |
| S50 | 12 | 623/17.12 and radiopaque | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 14:47 |
| S51 | 2 | "5574075".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/11 15:06 |
| S52 | 2 | "5258028".pn. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2002/10/15 16:43 |
| S63 | 2195 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:51 |
| S64 | 1864 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:53 |
| S65 | 491 | S64 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:52 |

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| S66 | 689 | S64 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:52 |
| S67 | 861 | S65 S66 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:53 |
| S68 | 1108 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:24 |
| S69 | 346 | S68 and @lad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:54 |
| S70 | 360 | S68 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 13:54 |
| S71 | 509 | S69 S70 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:13 |
| S72 | 421 | S69 S70 | USPAT | OR | OFF | 2006/04/24 14:14 |
| S73 | 326 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 and (two with (size or range)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:04 |
| S74 | 462 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 and ((two or different) with (size or range)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:33 |
| S75 | 159 | S74 and @lad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:25 |
| S76 | 120 | S74 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:25 |
| S77 | 199 | S75 S76 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:25 |
| S78 | 156 | S75 S76 | USPAT | OR | OFF | 2006/04/24 14:25 |
| S79 | 182 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 and ((two or different) with (particle or particulate) with (size or range)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:34 |

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| S80 | 57 | S79 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:34 |
| S81 | 46 | S79 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:34 |
| S82 | 77 | S80 S81 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 14:34 |
| S83 | 77 | S80 S81 | US-PGPUB; USPAT | OR | OFF | 2006/04/24 14:43 |
| S84 | 2 | "6309420".pn. or "6231615".pn. | US-PGPUB; USPAT | OR | OFF | 2006/04/24 15:00 |
| S85 | 764 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and (microns or um) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:05 |
| S86 | 707 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and (microns) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:05 |
| S87 | 324 | ((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and ((particle or particulate) with size with microns) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:05 |
| S88 | 71 | S87 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:06 |
| S89 | 99 | S87 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:06 |
| S90 | 135 | S88 S89 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2006/04/24 15:06 |
| S91 | 127 | S88 S89 | US-PGPUB; USPAT | OR | OFF | 2006/04/24 15:06 |
| S92 | 1 | "6174330".pn. | US-PGPUB; USPAT | OR | OFF | 2006/04/24 17:31 |
| S93 | 44 | gabbay.in. and valve | US-PGPUB; USPAT | OR | OFF | 2006/04/24 17:31 |
| S94 | 40 | gabbay.in. and valve and heart | US-PGPUB; USPAT | OR | OFF | 2006/04/24 17:32 |
| S95 | 187 | garrison.in. and valve | US-PGPUB; USPAT | OR | OFF | 2006/04/24 17:32 |
| S96 | 51 | garrison.in. and valve and heart | US-PGPUB; USPAT | OR | OFF | 2006/04/24 17:32 |

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| S97 | 47 | bone and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces) and (PMMA or polymethylmethacrylate)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:45 |
| S98 | 70 | bone and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces) and (PMMA or polymethylmethacrylate)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:54 |
| S99 | 7 | S98 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:45 |
| S100 | 4 | S98 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:46 |
| S101 | 9 | S99 S100 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:46 |
| S102 | 79 | (cement or implant\$4) and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces) and (PMMA or polymethylmethacrylate)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:55 |
| S103 | 18 | S102 not S98 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:55 |
| S104 | 0 | S103 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:55 |
| S105 | 0 | S103 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:55 |
| S106 | 104 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces or powder) and (PMMA or polymethylmethacrylate)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:56 |
| S107 | 109 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces or powder) and (PMMA or polymethylmethacrylate or polymethacrylate)) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:00 |
| S108 | 7 | S107 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:56 |
| S109 | 6 | S107 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:57 |

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| S110 | 11 | S108 S109 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 17:57 |
| S111 | 768 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and (particles or particulate or fragments or pieces or powder)) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:54 |
| S112 | 448 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and (particles or particulate or fragments or pieces or powder) and barium) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:09 |
| S113 | 60 | S112 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:01 |
| S114 | 17 | S112 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:01 |
| S115 | 68 | S113 S114 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:02 |
| S116 | 0 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) near (particles or particulate or fragments or pieces or powder) near barium) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:02 |
| S117 | 36 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) near (particles or particulate or fragments or pieces or powder)) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:02 |
| S118 | 4 | S117 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:03 |
| S119 | 5 | S117 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:03 |
| S120 | 6 | S118 S119 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:03 |

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| S121 | 353 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder) with size) and barium and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:21 |
| S122 | 58 | S121 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:10 |
| S123 | 14 | S121 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:10 |
| S124 | 64 | S122 S123 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:10 |
| S125 | 116 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder or beads) with barium) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:22 |
| S126 | 171 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder or beads) with (barium or tungsten or tantalum or gold) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:22 |
| S127 | 157 | (cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder or beads) with (barium or tungsten or tantalum or gold) and (PMMA or polymethylmethacrylate or polymethacrylate) and size | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:22 |
| S128 | 36 | S127 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:23 |
| S129 | 7 | S127 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:23 |
| S130 | 38 | S128 S129 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 18:23 |

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|------|------|--|--------------------------------------|----|-----|---------------------|
| S131 | 4 | "5507813".pn. or "5795922".pn. | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/07 19:36 |
| S132 | 1279 | ((radiopaque or radiographic or radiopacity or opacifier) and (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:55 |
| S133 | 176 | ((radiopaque or radiographic or radiopacity or opacifier) with (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate or polymethacrylate) | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:55 |
| S134 | 220 | ((radiopaque or radiographic or radiopacity or opacifier) with (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate or polymethacrylate or cement or acrylate) | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:55 |
| S135 | 192 | ((radiopaque or radiographic or radiopacity or opacifier) with (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate or polymethacrylate or cement or acrylate) and size | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:55 |
| S136 | 27 | S135 and @rlad<"19971014" | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:56 |
| S137 | 46 | S135 and @ad<"19971014" | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:56 |
| S138 | 55 | S136 S137 | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 11:56 |
| S139 | 34 | ("3789029" "4093576" "4131597" "4192021" "4373217" "4500658" "4526909" "4547390" "4617327" "4652593" "4843112" "4898734" "4963151" "5271961" "5276070" "5334626").PN. OR ("6080801").URPN. | US-PPGPUB; USPAT; USOOR | OR | ON | 2007/09/08 13:00 |
| S140 | 1 | "6174330".pn. | US-PPGPUB; USPAT; USOOR | OR | ON | 2007/09/08 13:01 |
| S141 | 2 | "5258028".pn. | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2007/09/08 14:40 |
| S143 | 268 | (bone adj cement).ab. and PMMA | US-PPGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 18:47 |

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|------|-----|---|-------------------------------|----|-----|------------------|
| S144 | 706 | 623/23.61.ccls. or 623/23.63.ccls. or 623/23.62.ccls. or 623/23.73.ccls. or 523/117.ccls. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 18:59 |
| S145 | 165 | S144 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:00 |
| S146 | 233 | S144 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:00 |
| S147 | 296 | S145 S146 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:00 |
| S148 | 45 | S147 and (PMMA or polymethylmethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:01 |
| S149 | 40 | S147 and (PMMA or polymethylmethacrylate) and partic\$5 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:15 |
| S150 | 41 | S147 and (PMMA or polymethylmethacrylate) and (partic\$5 or size) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:15 |
| S151 | 146 | S147 and (radiopaque or opacity or opacifier or contrast or radiopacity) and (partic\$5 or size) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:16 |
| S152 | 52 | 977/834.ccls. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:17 |
| S153 | 6 | S152 and @rlad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:17 |
| S154 | 11 | S152 and @ad<"19971014" | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:17 |
| S155 | 16 | S153 S154 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:17 |
| S156 | 0 | S155 and (PMMA or polymethylmethacrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:18 |
| S157 | 0 | S155 and (PMMA or polymethylmethacrylate or cement) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:18 |
| S158 | 23 | S148 and S151 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:19 |
| S159 | 112 | S147 and (PMMA or polymethylmethacrylate or acrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:41 |
| S160 | 61 | S147 and (radiopaque or opacity or opacifier or contrast or radiopacity) and (partic\$5 or size) and (PMMA or polymethylmethacrylate or acrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:42 |

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|------|----|--|-------------------------------|----|-----|------------------|
| S161 | 79 | S147 and (radiopaque or opacity or opacifier or contrast or radiopacity or barium or tantalum) and (partic\$5 or size) and (PMMA or polymethylmethacrylate or acrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:43 |
| S162 | 39 | S147 and (bone with partic\$5) and size and (PMMA or polymethylmethacrylate or acrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:47 |
| S163 | 87 | S161 S162 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:47 |
| S164 | 79 | S147 and (radiopaque or opacity or opacifier or contrast or radiopacity or barium or tantalum or radiopacifier) and (partic\$5 or size) and (PMMA or polymethylmethacrylate or acrylate) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:49 |
| S165 | 87 | S164 S162 | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2008/03/02 19:49 |

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